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Cc: [BLISCHKE Heidi](#)
Subject: RE: Oregon Steel Mills Conceptual Site Model
Date: 01/18/2006 08:23 AM

[attachment "TPH_Metals_Tech_memo_Jan_12.pdf" deleted by Chip Humphrey/R10/USEPA/US]

For those that are tracking the OSM site, recent data (attached and summarized below) suggests a significant change in the conceptual site model with respect to groundwater sources. If anyone has any questions, please send Heidi an e-mail or give her a call at 503-229-5556.

Matt McClincy

Matt - Please forward this to EPA and their partners. Thanks, Heidi

Based on RI data, OSM was considered to have TPH and Mn plumes leaving the upland portion of the site. The TPH plume migrating from the former sump area and the Mn plume located primarily on the northern portion of the site. Attached is an OSM technical memorandum prepared to highlight results of the September 2005 groundwater monitoring data collected in accordance with the TPH and Metals Source Control Evaluation Workplans. OSM installed 7 wells along the toe of the bank on the beach. They sampled the wells for TPH, SVOCs, and metals. DEQ thought that this data would be of interest to the EPA team as it is a change to the previous conceptual model. We are not looking for comments - but feel free to comment.

We asked them to run silica gel cleanup on the TPH in groundwater to get a better understanding of the elevated TPH concentrations found in locations where PAHs were absent - such as in MW-08 and MW-09. The results showed that the TPH in these wells was primarily organic acids (i.e. non-petroleum hydrocarbon). They conducted a second round of sampling in December, the results of which are pending, where DEQ asked them to sample the wells located in the former sump where we have PAHs for TPH using silica gel cleanup. Thus, it appears that there may not be a TPH plume leaving the site. The additional sampling will verify this.

The Mn data did not show the clear northern plume concept that was conceptualized in the RI. Mn continues to be elevated in several locations, but

does not appear to have a clear pattern. We are having OSM determine whether there is a specific redox condition (or maybe elevated pH) that may be liberating the Mn. In summary, the Mn in groundwater is not yet understood.

Please call me if you have any questions on the report, need additional information, have ideas about the occurrence on Mn in groundwater...

Thanks,

Heidi Blischke, R.G.

Lower Willamette Section

Department of Environmental Quality

